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## WHAT IS CLAIMED IS:

1. An organic electroluminescent device, which comprises a pair of electrodes, and a layer structure provided between the paired electrodes and including, at least, an emission layer comprising up to 10 mole% of a thiophene oligomer of the following formula

$$R - \begin{bmatrix} S \\ n \end{bmatrix}$$

wherein R and R' independently represent H, an alkyl group having from 1 to 10 carbon atoms, , an amino group, an aryl group and n is an integer of 2 to 10.

- An organic electroluminescent device according to Claim 1, wherein n is 2 to
   7.
- 3. An organic electroluminescent device according to Claim 1, wherein the content of said thiophene oligomer ranges from 0.1 to 5 mole%, based on a composition for said emission layer.
- 4. An organic electroluminescent device according to Claim 1, wherein said layer structure includes a hole injection layer, a hole transport layer and the emission layer formed on one of the electrodes serving as an anode in this order.
- 5. An organic electroluminescent device, which comprises a pair of electrodes, and a layer structure provided between the paired electrodes and including an emission layer, a hole injection layer and a hole transport layer wherein at least

one of the hole injection layer and the hole transport layer comprises an oligomer selected from the group consisting of a triphenylamine oligomer of the following formula,

5 wherein m is an integer of 2 to 6, a thiophene oligomer define din Claim 1 and mixtures thereof

$$R \longrightarrow S$$

wherein R and R' independently represent H, an alkyl group having from 1 to 10 carbon atoms, , an amino group, an aryl group and n is an integer of 2 to 10.

- 6. An organic electroluminescent device according to Claim 5, wherein said oligomer is present in an amount of 10 to 90 mole% in the at least one layer.
- 7. An organic electroluminescent device according to Claim 5, wherein said
  15 electron injection layer and said electron transport layer are combined into one layer made of a mixture of an electron injection material and an electron transport material.
- 8. An organic electroluminescent device according to Claim 5, wherein saidoligomer consists of said triphenylamine oligomer.

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- 10. An organic electroluminescent device according to Claim 5, wherein said oligomer consists of the mixture.
- 11. An organic electroluminescent device, which comprises a pair of electrodes and a layer structure provided between the paired electrodes and including an emission layer and at least one organic layer in contact with the emission layer wherein the organic layer comprises a fluorescent material having an absorption peak wavelength shorter than a peak wavelength of luminescence emitted from the emission layer.
- 12. An organic electroluminescent device according to Claim 11, wherein said at least one organic layer includes two organic sub-layers wherein said fluorescent material is present in one of the sub-layers not in contact with the emission layer.

13. An organic electroluminescent device, which comprises a pair of electrodes, and a layer structure sandwiched between the paired electrodes and including an organic layer capable of transporting electrons or holes and an emission layer wherein the organic layer has a charge transport interference sub-layer therein when the organic layer consists of a hole transport layer made of a hole transport material so that the sub-layer is made of an organic material having

an ionization potential greater than the hole transport material of the organic

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layer, or wherein the organic layer has a charge transport interference sub-layer therein when the organic layer consists of an electron transport layer made of an electron transport material so that the sub-layer is made of an organic material having an electron affinity smaller than the electron transport material of the organic layer.

- 14. An organic electroluminescent device comprising a pair of electrodes, and a layer structure sandwiched between the paired electrodes and including a charge transport layer and an emission layer wherein the charge transport layer has a charge transport interference sub-layer therein, and the sub-layer is made of a mixture of both a hole transport material and an electron transport material, an inorganic compound or a metal.
- 15. An organic electroluminescent device according to Claim 14, wherein said sub-layer is made of the mixture.
- 16. An organic electroluminescent device according to Claim 15, wherein said mixture consists of a hole transport material and an electron transport material at a ratio by mole of 1: 99 to 99: 1.
- 17. An organic electroluminescent device according to Claim 14, wherein said sub-layer is made of an inorganic compound selected from the group consisting of oxides, halides, nitrides, sulfides, hydroxides and mixtures thereof.

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18. An organic electroluminescent device according to Claim 14, wherein said sub-layer is made of a metal.